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TITLE: GEL-FORM IMMOBILIZED BACTERIAL CELL

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APPL-DATE: March 5, 1996

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## ABSTRACT:

PROBLEM TO BE SOLVED: To obtain the subject bacterial cells useful for water preservation, etc., by immobilizing specific photosynthetic bacterial cells and a nutritive substrate of the bacterial cells with gelling materials such as gelatin, a seaweed polysaccharide, polyvinyl alcohol (PVA) and sodium alginate, etc., then reinforcing with a porous material having fine pores.

SOLUTION: The gel-form immobilized bacterial cells capable of being used for a long time in the water area for water preservation of a sea, a river, a lake, a pond, etc., are obtained by immobilizing one or more of photosynthetic bacterial cells of such as Rhodopseudomonas capsulata (FERM P-879), Rhodopseudomonas spheroides (IFO 12203), Rhodospirillum rubrum (FERM P-878) and Chromatium vinosum (FERM P-890), etc., with one or more of gelling material such as gelatin, a seaweed polysaccharide, PVA, sodium alginate, etc., to obtain gel-form solidified bacterial cells, which are then reinforced by one or more of porous granule materials having 1-5mm diameter and fine pores such as andosol grains, OYA-ishi grains, charcoal grains, vermiculite grains and high molecular resin sponge grains, etc.

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